

| L Number | Hits | Search Text  | DB                              | Time stamp          |
|----------|------|--|---------------------------------|---------------------|
| -        | 306  | (600/528).CCLS.  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/27<br>15:22 |
| -        | 129  | ((600/528).CCLS.) and (@ad<20010702 or @rlad<20010702) and filter\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/25<br>12:25 |
| -        | 39   | ((600/528).CCLS.) and (@ad<20010702 or @rlad<20010702) and filter\$3 and threshold\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/15<br>14:12 |
| -        | 51   | ((600/528).CCLS.) and (@ad<20010702 or @rlad<20010702) and filter\$3 and (envelope or smooth\$4 or differentiat\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/15<br>14:12 |
| -        | 26   | ((600/528).CCLS.) and (@ad<20010702 or @rlad<20010702) and filter\$3 and threshold\$3) and (((600/528).CCLS.) and (@ad<20010702 or @rlad<20010702) and filter\$3 and (envelope or smooth\$4 or differentiat\$3))   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/15<br>14:11 |
| -        | 257  | 600/586  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/15<br>14:12 |
| -        | 58   | 600/586 and (@ad<20010702 or @rlad<20010702) and filter\$3 and (envelope or smooth\$4 or differentiat\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/15<br>14:12 |
| -        | 37   | 600/586 and (@ad<20010702 or @rlad<20010702) and filter\$3 and threshold\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/15<br>14:12 |
| -        | 189  | (600/586).CCLS.  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/15<br>14:56 |
| -        | 41   | ((600/586).CCLS.) and (@ad<20010702 or @rlad<20010702) and filter\$3 and (envelope or smooth\$4 or differentiat\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/15<br>14:55 |
| -        | 24   | ((600/586).CCLS.) and (@ad<20010702 or @rlad<20010702) and filter\$3 and threshold\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/15<br>14:56 |
| -        | 18   | ((600/586).CCLS.) and (@ad<20010702 or @rlad<20010702) and filter\$3 and (envelope or smooth\$4 or differentiat\$3) and (((600/586).CCLS.) and (@ad<20010702 or @rlad<20010702) and filter\$3 and threshold\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/15<br>15:00 |
| -        | 135  | ((600/508,509,513,528,586).CCLS.) and ((heart same (sound or acoustic or audio)) or phonocardiogra\$3) and (smooth\$3 or differentiat\$4 or averag\$3 or mean or envelope) and (squar\$4 or absolute or (peak near2 detect\$3)) and (@ad<20010702 or @rlad<20010702) | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/16<br>10:51 |
| -        | 435  | (600/528,586).CCLS.  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>11:50 |
| -        | 362  | ((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702)   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:08 |
| -        | 94   | ((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2))  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>12:26 |
| -        | 31   | ((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2)) and threshold\$4   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>12:01 |
| -        | 17   | ((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII")) and envelop\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>12:45 |

|   |     |  |                                 |                     |
|---|-----|--|---------------------------------|---------------------|
| - | 18  | ((((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and envelop\$3 and differentia\$5   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>12:41 |
| - | 103 | ((((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII"))  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:09 |
| - | 43  | ((((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII")) ) and (derivative\$1 or differentiat\$4 or differentiation or smooth\$5)                               | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:01 |
| - | 14  | ((((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII")) ) and (derivative\$1 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3 | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:08 |
| - | 162 | ((128/901).CCLS.)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:21 |
| - | 143 | ((128/901).CCLS.) and (@ad<20010702 or @rlad<20010702)   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:21 |
| - | 6   | ((((128/901).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (derivat\$7 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:22 |
| - | 14  | ((((600/528,586).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII")) ) and (derivat\$7 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3    | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:09 |
| - | 834 | ((600/508,513).CCLS.)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:08 |
| - | 767 | ((600/508,513).CCLS.) and (@ad<20010702 or @rlad<20010702)   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:08 |
| - | 88  | ((((600/508,513).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII"))  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:17 |
| - | 21  | ((((600/508,513).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (((first or second) with (heart near2 sound)) or (s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII")) ) and (derivat\$7 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3    | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:18 |
| - | 112 | ((((600/508,513).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and ((heart near2 sound) or s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII" or (lub near2 dub))  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:18 |

|   |     |  |                                 |                     |
|---|-----|--|---------------------------------|---------------------|
| - | 22  | (((((600/508,513).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and ((heart near2 sound) or s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII" or (lub near2 dub)) ) and (derivat\$7 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:18 |
| - | 1   | (((((600/508,513).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and ((heart near2 sound) or s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII" or (lub near2 dub)) ) and (derivat\$7 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3 ) not (((((600/508,513).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and ((first or second) with (heart near2 sound)) or (s1 or s2 or "S 1" or "s 2" or HS1 or HS2 or "SI" or "SII" or "HSI" or "HSII")) ) and (derivat\$7 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3 ) | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:18 |
| - | 79  | (128/902).CCLS.  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:21 |
| - | 64  | ((128/902).CCLS.) and (@ad<20010702 or @rlad<20010702)   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>13:22 |
| - | 2   | ((128/902).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and (derivat\$7 or differentiat\$4 or differentiation or smooth\$5) and squar\$4 and threshold\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>14:50 |
| - | 834 | (600/508,513).CCLS.  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>15:00 |
| - | 216 | ((600/504).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and ((pulse near2 wave) or (velocit\$3 or speed\$3))  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>14:54 |
| - | 767 | ((600/508,513).CCLS.) and (@ad<20010702 or @rlad<20010702)   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>14:53 |
| - | 35  | ((600/508,513).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and ((pulse near2 wave\$4) and (velocit\$3 or speed\$3))  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>15:00 |
| - | 671 | (600/481,504).CCLS.  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>14:59 |
| - | 615 | ((600/481,504).CCLS.) and (@ad<20010702 or @rlad<20010702)   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>14:59 |
| - | 45  | ((600/481,504).CCLS.) and (@ad<20010702 or @rlad<20010702) ) and ((pulse near2 wave\$4) same (velocit\$3 or speed\$3))   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>15:03 |
| - | 54  | 600/\$ and ((pulse near2 wave\$4) same (velocit\$3 or speed\$3)) and ((heart near2 sound\$1) or phonocardiogra\$4) and (@ad<20010702 or @rlad<20010702)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>15:30 |
| - | 27  | 600/\$ and ((heart near2 sound\$1) or phonocardiogra\$4) and (@ad<20010702 or @rlad<20010702) and (systol\$2 with (tim\$3 or period)) and ((pulse near2 wave\$4) same (velocit\$3 or speed\$3))  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>15:30 |

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| - | 0   | (600/\$ and ((heart near2 sound\$1) or phonocardiogra\$4) and (@ad<20010702 or @rlad<20010702) and (systol\$2 with (tim\$3 or period)) and ((pulse near2 wave\$4) same (velocit\$3 or speed\$3))) not (600/\$ and ((pulse near2 wave\$4) same (velocit\$3 or speed\$3)) and ((heart near2 sound\$1) or phonocardiogra\$4) and (@ad<20010702 or @rlad<20010702)) | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/23<br>15:30 |
| - | 52  | 600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and ((heart near2 sounds) or phono\$1cardiogra\$4)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/25<br>14:27 |
| - | 106 | 600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and ((heart with sound\$1) or phono\$1cardiogra\$4)   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/25<br>14:42 |
| - | 54  | (600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and ((heart with sound\$1) or phono\$1cardiogra\$4)) not (600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and ((heart near2 sounds) or phono\$1cardiogra\$4))  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/25<br>14:27 |
| - | 113 | 600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and (((heart or cardia\$1 or myo\$1cardia\$1) with sound\$1) or phono\$1cardiogra\$4)   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/25<br>14:45 |
| - | 21  | 600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and (((heart or cardia\$1 or myo\$1cardia\$1) with sound\$1) with first)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/25<br>15:09 |
| - | 60  | 600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and (((heart or cardia\$1 or myo\$1cardia\$1) near2 sound\$1) or phono\$1cardiogra\$4)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/25<br>14:42 |
| - | 8   | (600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and (((heart or cardia\$1 or myo\$1cardia\$1) near2 sound\$1) or phono\$1cardiogra\$4)) not (600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and ((heart near2 sounds) or phono\$1cardiogra\$4))                                   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/25<br>14:42 |

|   |   |   |                                 |                     |
|---|---|---|---------------------------------|---------------------|
| - | 3 | (600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and (((heart or cardia\$1 or myo\$1cardia\$1) with sound\$1) or phono\$1cardiogra\$4)) not ((600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and ((heart near2 sounds) or phono\$1cardiogra\$4)) (droesch.xa. and envelop\$3) (600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and ((heart with sound\$1) or phono\$1cardiogra\$4)) ((600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and ((heart with sound\$1) or phono\$1cardiogra\$4)) not (600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and ((heart near2 sounds) or phono\$1cardiogra\$4))) (600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and (((heart or cardia\$1 or myo\$1cardia\$1) with sound\$1) with first) ) (600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and (((heart or cardia\$1 or myo\$1cardia\$1) near2 sound\$1) or phono\$1cardiogra\$4)) ((600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and (((heart or cardia\$1 or myo\$1cardia\$1) near2 sound\$1) or phono\$1cardiogra\$4)) not (600/\$ and (@ad<20010702 or @rlad<20010702) and (pulse with (velocit\$3 or speed\$1)) and ((heart near2 sounds) or phono\$1cardiogra\$4)))) | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2003/09/25<br>14:43 |
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